

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1589928

Luminaire Tested: 24CZSP-SB-62-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-62-L945-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

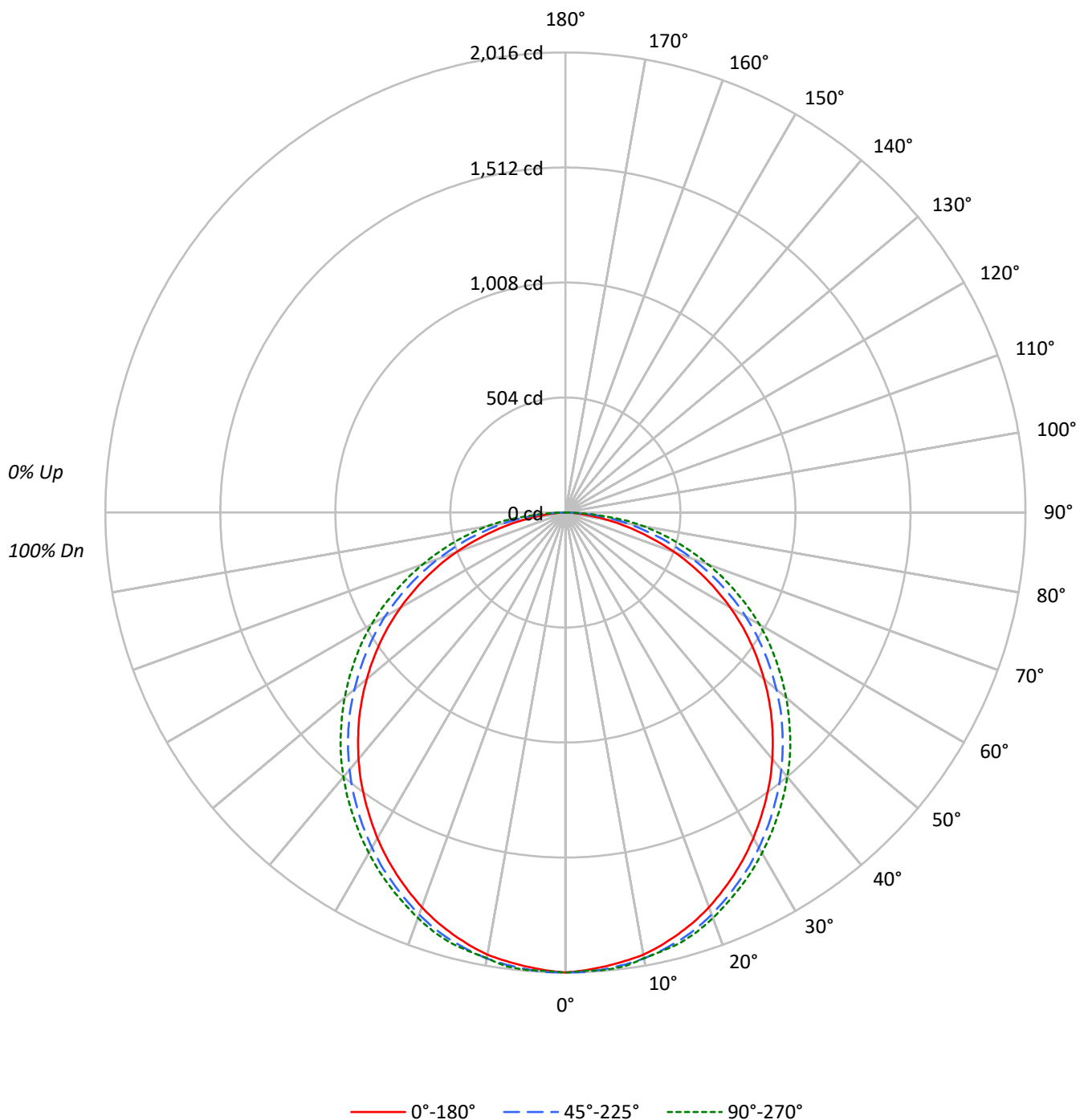
Lumens per Lamp: N/A
Luminaire Lumens: 5864.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3087	3087	3087
5°	3070	3088	3094
10°	3061	3086	3084
15°	3032	3076	3094
20°	3000	3055	3082
25°	2957	3025	3063
30°	2914	2998	3048
35°	2866	2970	3033
40°	2820	2943	3024
45°	2768	2913	3017
50°	2708	2877	3009
55°	2641	2840	3005
60°	2558	2798	3006
65°	2441	2738	2990
70°	2282	2655	2983
75°	2023	2553	2994
80°	1647	2426	3082
85°	1065	2239	2661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	3.3
10°-20°	546.3	9.3
20°-30°	823.7	14.0
30°-40°	991.1	16.9
40°-50°	1033.8	17.6
50°-60°	947.5	16.2
60°-70°	744.1	12.7
70°-80°	452.9	7.7
80°-90°	134.0	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1560.7	26.6
0°-40°	2551.8	43.5
0°-60°	4533.1	77.3
0°-90°	5864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2016	2016	2016	2016	2016	
5°	1997	2010	2008	2006	2012	190
15°	1912	1931	1940	1943	1952	540
25°	1750	1774	1790	1801	1813	806
35°	1533	1557	1588	1611	1622	959
45°	1278	1304	1345	1376	1393	985
55°	989	1014	1063	1106	1125	884
65°	674	699	756	806	825	666
75°	342	373	431	483	506	362
85°	61	86	127	142	151	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2015.8	2015.8	2015.8	2015.8	2015.8
2.5°	2008.3	2018.4	2015.8	2007.0	2010.8
5°	1996.9	2009.5	2008.3	2005.7	2012.1
7.5°	1983.0	1996.9	1998.2	1998.2	2005.7
10°	1967.9	1981.8	1984.3	1980.5	1983.0
12.5°	1942.7	1959.1	1964.1	1964.1	1967.9
15°	1912.4	1931.3	1940.2	1942.7	1951.5
17.5°	1879.6	1899.8	1911.1	1917.4	1925.0
20°	1840.5	1861.9	1874.6	1882.1	1891.0
22.5°	1796.3	1820.3	1834.2	1841.8	1851.8
25°	1749.7	1773.6	1790.0	1801.4	1812.7
27.5°	1700.5	1723.2	1745.9	1759.8	1769.9
30°	1647.5	1671.5	1695.4	1713.1	1723.2
32.5°	1590.7	1616.0	1643.7	1662.6	1674.0
35°	1532.7	1556.7	1588.2	1610.9	1622.3
37.5°	1473.4	1498.6	1531.4	1555.4	1569.3
40°	1410.3	1436.8	1472.1	1498.6	1512.5
42.5°	1344.7	1370.0	1409.1	1439.3	1455.7
45°	1277.9	1304.4	1344.7	1376.3	1392.7
47.5°	1208.5	1233.7	1277.9	1314.5	1328.3
50°	1136.6	1160.6	1207.2	1246.3	1262.7
52.5°	1063.4	1088.7	1135.3	1177.0	1194.6
55°	989.0	1014.2	1063.4	1106.3	1125.2
57.5°	913.3	938.5	989.0	1033.1	1055.9
60°	835.1	860.3	913.3	958.7	981.4
62.5°	754.4	780.9	835.1	881.8	905.7
65°	673.6	698.9	755.6	806.1	825.0
67.5°	592.9	618.1	673.6	724.1	746.8
70°	509.6	538.7	592.9	645.9	666.1
72.5°	422.6	455.4	509.6	565.1	585.3
75°	341.9	373.4	431.4	483.1	505.9
77.5°	262.4	296.4	350.7	403.7	426.4
80°	186.7	219.5	275.0	325.5	349.4
82.5°	118.6	147.6	203.1	248.5	266.2
85°	60.6	85.8	127.4	142.5	151.4
87.5°	17.7	30.3	45.4	56.8	63.1
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.4	17.1	15.8	17.4	17.7	16.2	17.8	16.5	18.1	18.4
	3H	17.2	18.7	17.6	19.0	19.4	18.2	19.7	18.6	20.1	20.4
	4H	17.8	19.2	18.2	19.6	19.9	19.1	20.5	19.5	20.9	21.2
	6H	18.2	19.5	18.6	19.9	20.3	19.8	21.2	20.3	21.5	21.9
	8H	18.3	19.6	18.7	20.0	20.4	20.1	21.4	20.6	21.8	22.2
	12H	18.4	19.6	18.8	20.0	20.4	20.3	21.5	20.8	21.9	22.3
4H	2H	16.2	17.6	16.6	18.0	18.3	16.8	18.2	17.2	18.5	18.9
	3H	18.2	19.4	18.6	19.8	20.2	19.1	20.3	19.5	20.7	21.1
	4H	18.9	20.0	19.3	20.4	20.8	20.1	21.2	20.5	21.6	22.0
	6H	19.4	20.4	19.9	20.8	21.3	21.0	21.9	21.4	22.4	22.8
	8H	19.6	20.5	20.0	20.9	21.4	21.4	22.2	21.8	22.7	23.2
	12H	19.7	20.5	20.1	20.9	21.4	21.6	22.4	22.1	22.9	23.4
8H	4H	19.4	20.3	19.8	20.7	21.2	20.4	21.3	20.8	21.7	22.2
	6H	20.0	20.8	20.5	21.3	21.7	21.4	22.2	21.9	22.7	23.1
	8H	20.2	20.9	20.7	21.4	21.9	21.9	22.6	22.4	23.1	23.6
	12H	20.4	21.0	20.9	21.5	22.0	22.3	22.9	22.8	23.3	23.9
12H	4H	19.4	20.2	19.9	20.7	21.2	20.4	21.2	20.9	21.7	22.2
	6H	20.2	20.8	20.7	21.3	21.8	21.5	22.2	22.0	22.6	23.2
	8H	20.4	21.0	20.9	21.5	22.1	22.0	22.6	22.5	23.1	23.7

(END OF REPORT)